

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 111  | ((variable near3 gain) with exponent\$5) and (control near voltage)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/06 10:47 |
| L2    | 223  | ((variable near3 gain) with exponent\$5)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/06 10:41 |
| L3    | 2    | ((variable near3 gain) with exponent\$5) and (voltage near gain) and (independent with thermal)                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/06 10:41 |
| L4    | 2    | ((variable near3 gain) same exponent\$5) and (voltage near gain) and (independent with thermal)                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/06 10:41 |
| L5    | 81   | ((variable near3 gain) with exponent\$5) and (control near2 voltage\$1) and (voltage near2 gain)                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/06 10:41 |
| L6    | 6    | (variable near3 gain) and (control near2 voltage\$1) and ((voltage near2 gain) with exponent\$ with inver\$6)                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/06 10:41 |
| L7    | 11   | (variable near3 gain) and (control near2 voltage\$1) and ((voltage near2 gain) same exponent\$ same inver\$6)                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/06 10:41 |
| L8    | 5    | L7 not L6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/06 10:41 |
| L9    | 18   | (variable near3 gain) and (control near2 voltage\$1) and ((voltage near2 gain) with exponent\$) and (independent with temperature\$1) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/06 10:41 |

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|-----|-----|--|---|----|-----|------------------|
| L10 | 2   | "20050073362".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L11 | 0   | "330"/\$.ccls. and ((operation near2 amplifier) with current mirror) and (voltage near2 temprature) and (reference near2 voltage)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L12 | 351 | "330"/\$.ccls. and ((operation near2 amplifier) with current mirror) and (voltage near2 temperature\$1) and (reference near2 voltage)                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L13 | 5   | "330"/\$.ccls. and ((operation near2 amplifier) with feedback with resist\$6) and (voltage near2 temperature\$1) and (reference near2 voltage) and (current near mirror) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L14 | 128 | (proportion with voltage with amplifier) and (current near mirror) and (voltage near reference\$1)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L15 | 14  | (proportion with voltage with amplifier) and (current near mirror) and (voltage near reference\$1) and exponential   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L16 | 74  | (temperature with voltage with amplifier) and (current near mirror) and (voltage near reference\$1) and exponential  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L17 | 27  | 330/254,256,260.ccls. and ((variable near3 gain) with exponent\$5) and (control near voltage) and temperature  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L18 | 27  | 330/250,254,256,260.ccls. and ((variable near3 gain) with exponent\$5) and (control near voltage) and temperature  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L19 | 41  | "330"/\$.ccls. and ((variable near3 gain) with exponent\$5) and (control near voltage) and temperature   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |

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|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| L20 | 2   | "20050046479".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L21 | 237 | (compar\$3 with differe\$7 with (bit<br>near2 line\$1) with (ground or<br>potential))     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L22 | 25  | ((voltage near2 gain) with exponent\$<br>with inver\$6)                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L23 | 144 | (voltage near2 gain) with exponent\$  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L24 | 2   | "20010006353".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L25 | 42  | 330/250,254,256,260.ccls. and<br>((voltage near3 gain) with<br>exponent\$5)               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L26 | 8   | 330/250,254,256,260.ccls. and<br>((voltage near3 gain) with exponent\$5<br>with inver\$5) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L27 | 12  | "330"/\$.ccls. and ((voltage near3 gain)<br>with exponent\$5 with inver\$5)               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L28 | 4   | L27 not L26   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |

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|-----|----|---|---|----|-----|------------------|
| L29 | 31 | ((voltage near3 gain) with exponent\$5 with inver\$5) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L30 | 19 | L29 not L27   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L31 | 2  | "5030924".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L32 | 2  | "20010006353".pn.                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L33 | 8  | "330"/\$.ccls. and (linear adj2 decibel).<br>ti.      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L34 | 4  | ((("20010006353") or ("5030924")).PN.                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L35 | 20 | "5162678"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L36 | 2  | "5162678".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |

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|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| L37 | 8   | ((("20030058047") or ("5912589") or ("5247398") or ("5162678")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L38 | 2   | ((variable near3 gain) same exponent\$5) and (voltage near gain) and (independent with thermal)                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L39 | 11  | (variable near3 gain) and (control near2 voltage\$1) and ((voltage near2 gain) same exponent\$ same inver\$6)                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L40 | 0   | "330"/\$.ccls. and ((operation near2 amplifier) with current mirror) and (voltage near2 temprature) and (reference near2 voltage) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L41 | 27  | 330/254,256,260.ccls. and ((variable near3 gain) with exponent\$5) and (control near voltage) and temperature                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L42 | 27  | 330/250,254,256,260.ccls. and ((variable near3 gain) with exponent\$5) and (control near voltage) and temperature                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L43 | 41  | "330"/\$.ccls. and ((variable near3 gain) with exponent\$5) and (control near voltage) and temperature                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L44 | 237 | (compar\$3 with differe\$7 with (bit near2 line\$1) with (ground or potential))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L45 | 12  | "330"/\$.ccls. and ((voltage near3 gain) with exponent\$5 with inver\$5)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |

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|     |    |  |   |    |     |                  |
|-----|----|--|---|----|-----|------------------|
| L46 | 31 | ((voltage near3 gain) with exponent\$5 with inver\$5)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L47 | 20 | "5162678"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L48 | 2  | ((variable near3 gain) with exponent\$5) and (voltage near gain) and (independent with thermal)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L49 | 81 | ((variable near3 gain) with exponent\$5) and (control near2 voltage\$1) and (voltage near2 gain)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L50 | 6  | (variable near3 gain) and (control near2 voltage\$1) and ((voltage near2 gain) with exponent\$ with inver\$6)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L51 | 5  | L39 not L50  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L52 | 18 | (variable near3 gain) and (control near2 voltage\$1) and ((voltage near2 gain) with exponent\$) and (independent with temperature\$1)                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L53 | 2  | "20050073362".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L54 | 5  | "330"/\$.ccls. and ((operation near2 amplifier) with feedback with resist\$6) and (voltage near2 temperature\$1) and (reference near2 voltage) and (current near mirror) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |

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|     |    |   |   |    |     |                  |
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| L55 | 14 | (proportion with voltage with amplifier) and (current near mirror) and (voltage near reference\$1) and exponential  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L56 | 74 | (temperature with voltage with amplifier) and (current near mirror) and (voltage near reference\$1) and exponential | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L57 | 2  | "20050046479".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L58 | 25 | ((voltage near2 gain) with exponent\$ with inver\$6)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L59 | 2  | "20010006353".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L60 | 42 | 330/250,254,256,260.ccls. and ((voltage near3 gain) with exponent\$5)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L61 | 8  | 330/250,254,256,260.ccls. and ((voltage near3 gain) with exponent\$5 with inver\$5)                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L62 | 4  | L45 not L61   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L63 | 19 | L46 not L45   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |

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|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| L64 | 2   | "5030924".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L65 | 2   | "20010006353".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L66 | 8   | "330"/\$.ccls. and (linear adj2 decibel).<br>ti.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L67 | 4   | ((("20010006353") or ("5030924")).PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L68 | 2   | "5162678".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L69 | 8   | ((("20030058047") or ("5912589") or<br>("5247398") or ("5162678")).PN.                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:41 |
| L70 | 111 | ((variable near3 gain) with<br>exponent\$5) and (control near<br>voltage)                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L71 | 128 | (proportion with voltage with<br>amplifier) and (current near mirror)<br>and (voltage near reference\$1) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L72 | 144 | (voltage near2 gain) with exponent\$   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |



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|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| L73 | 223 | ((variable near3 gain) with exponent\$5)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L74 | 351 | "330"/\$.ccls. and ((operation near2 amplifier) with current mirror) and (voltage near2 temperature\$1) and (reference near2 voltage)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:41 |
| L75 | 24  | ((("20050184805") or ("6292059") or ("6819183") or ("6020786") or ("20050068087") or ("6882185") or ("6724235") or ("5900781") or ("6894564") or ("20030169090") or ("6791413") or ("6124716")).PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/06 10:43 |
| L76 | 3   | ("5880631"   "6229374"   "6259321").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2006/05/06 10:45 |
| L77 | 3   | ("5177453"   "6052032"   "6677823").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2006/05/06 10:45 |
| L78 | 25  | ((variable near3 gain) with exponent\$5) and (control near voltage) and (linear\$5 near4 decibel\$1)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2006/05/06 10:48 |